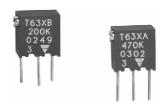
COMPLIANT





1/4" Multi-Turn Fully Sealed Container Cermet Trimmer



Due to their square shape and small size (6.8 mm x 6.8 mm x 5 mm), the multi-turn trimmers of the T63 series are ideally suited for PCB use, enabling high density board mounting with reduced space requirement between cards.

Six versions are available differing by the top or side position of the adjustment screw and by PC pins configuration.

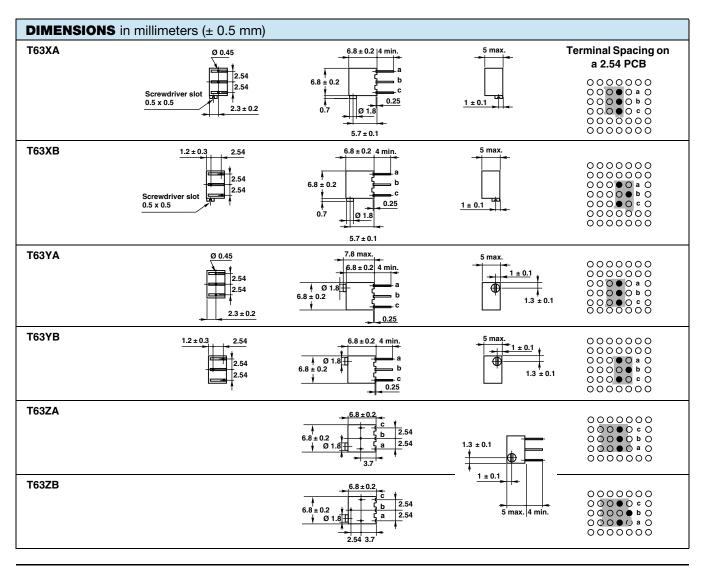
The use of cermet for the resistive track ensures an excellent stability of nominal specifications throughout life.

FEATURES

- 0.25 W at 70 °C
- Industrial grade



- Multi-turn operation
- Low contact resistance variation 1 % typical
- Compliant to RoHS directive 2002/95/EC





1/4" Multi-Turn Fully Sealed Container Cermet Trimmer



Resistive element	CATIONS	Cermet				
Electrical travel		14 turns ± 2				
Resistance range		10 Ω to 2.2 MΩ				
Standard series and on reques	st series E3	1 - 2 - 5 (1 - 2.2 - 4.7)				
	Standard	± 10 %				
Tolerance	On request	± 5 %				
	Linear	0.25 W at + 70 °C				
Power rating		0.25 N I GIN O O O O O O O O O O O O O O O O O O O				
Circuit diagram		$ \begin{array}{ccc} & & & & & & & & \\ & & & & & & & \\ & & & &$				
Temperature coefficient		See Standard Resistance Element table				
Limiting element voltage (linea	r law)	250 V				
Contact resistance variation		2 % Rn or 2 Ω				
End resistance (typical)		1 Ω				
Dielectric strength (RMS)		1000 V				
Insulation resistance (500 V _{DC})		$10^6\mathrm{M}\Omega$				

MECHANICAL SPECIFICATIONS				
Mechanical travel	15 turns ± 5			
Operating torque (max. Ncm)	1.5			
End stop torque	Clutch action			
Unit weight (max. g)	0.5			
Wiper (actual travel)	Positioned at approx. 50 %			
Terminals	Pure Sn (code e3)			

ENVIRONMENTAL SPECIFICATIONS			
Temperature range	- 55 °C to + 155 °C		
Climatic category	55/125/56		
Sealing	Fully sealed - IP67		



1/4" Multi-Turn Fully Sealed Container Cermet Trimmer

Vishay Sfernice

PERFORMANCES					
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS			
12313	CONDITIONS	ΔR _T /R _T (%)	$\Delta R_{1-2}/R_{1-2}$ (%)		
Load life	1000 h at rated power 90'/30' - ambient temp. 70 °C	± 1 % Contact res. variation: < 1 % Rn	± 2 %		
Climatic sequence	Phase A dry heat 125 °C - 30 % Pr Phase B damp heat Phase C cold - 55 °C Phase D damp heat 5 cycles	± 0.5 %	± 1 %		
Long term damp heat	56 days 40 °C, 93 % RH	$\pm~0.5~\%$ Dielectric strength: 1000 V_{RMS} Insulation resistance: $>10^4~M\Omega$	± 1 %		
Rapid temperature change	5 cycles - 55 °C to + 125 °C	± 0.5 %	$\Delta V_{1-2}/\Delta V_{1-3} \le \pm 1 \%$		
Shock	50 g at 11 ms 3 successive shocks in 3 directions	± 0.1 %	± 0.2 %		
Vibration	10 Hz to 55 Hz 0.75 mm or 10 g during 6 h	± 0.1 %	$\Delta V_{1-2}/\Delta V_{1-3} \le \pm \ 0.2 \%$		
Rotational life	200 cycles	$\pm (2 \% + 3 \Omega)$ Contact res. variation: < 1 % Rn	-		

STANDARD RESISTANCE ELEMENT DATA					
STANDARD		TYPICAL			
RESISTANCE VALUES	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CUR.	TCR - 55 °C + 125 °C	
Ω	W	V	mA	ppm/°C	
10	0.25	1.58	158		
20	0.25	2.23	112		
50	0.25	3.5	77		
100	0.25	35	50		
200	0.25	7.07	35		
500	0.25	11.2	22		
1K	0.25	15.8	15.8		
2K	0.25	22.3	11.2		
5K	0.25	35.3	7.1		
10K	0.25	50	5	± 100	
20K	0.25	70.7	3.5		
25K	0.25	79	3.2		
50K	0.25	112	2.2		
100K	0.25	158	1.6		
200K	0.25	224	1.1		
250K	0.25	250	1.1		
500K	0.13	250	0.50		
1M	0.06	250	0.25		
2.2M	0.03	250	0.125		

MARKING

- Vishay trademark
- Model
- Style
- Ohmic value (in Ω, kΩ, MΩ)
- Tolerance (in %) only if non standard
- Manufacturing date
- Marking of terminal 3

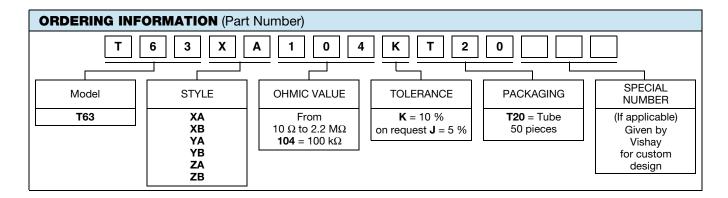
PACKAGING

• In tube of 50 pieces code T20 (TU50)

Vishay Sfernice

1/4" Multi-Turn Fully Sealed Container Cermet Trimmer





DESCRIPTION (for information only)						
T63	XA	100K	10 %		TU	e3
MODEL	STYLE	VALUE	TOLERANCE	SPECIAL	PACKAGING	LEAD FINISH



Legal Disclaimer Notice

Vishay

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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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